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WILDLIFE REVIEW

AN ABSTRACTING SERVICE FOR WILDLIFE MANAGEMENT
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FIFTY ISSUES OF WILDLIFE REVIEW

The notice in No. 1, September 1935, that "Until further announcement, WILDLIFE REVIEW will be conducted by W. L. McAtee" has held good until now. True, there have been some signed abstracts by others, particularly in No. 47, December 1946, as therein explained. The plan for assistance mentioned in No. 35, November 1942, never worked out. On the whole, 99 percent of the abstracts have been prepared by McAtee. The total number in 50 issues as shown by the tabulation on page 32 is 5,952.

Chicago, Ill. No. 50 July, 1947

Conservation: Swan, Trumpeter

Soper, J. W. Dewey. Will the trumpeter swan join the great auk?, Rod and Gun in Canada (1410 Stanley St., Montreal, Canada. 15 cents a copy), 48(11), March 1947, pp. 12, 35, 2 figs.

Characteristics, former and present ranges, conservation efforts, limiting factors, numbers in the United States and Canada, probably not much in excess of 1,000 together. Unfailing care is required to save the species from extinction.

Diseases and Parasites: Algal poisoning

Brandenburg, T. O., and Fred M. Shigley. "Water bloom" as a cause of poisoning in livestock in North Dakota, Journ. American Veterinary Med. Assoc. (600 S. Michigan Ave., Chicago, Ill. 75 cents a copy), 110(843), June 1947, pp. 384-385.

Review of literature on the subject and report of new losses. Besides livestock, a number of deer were found dead apparently from the same cause. The kinds of algae responsible were not identified.

Diseases and Parasites: Plague

Wayson, N. E. Plague--Field surveys in western United States during ten years (1936-1945), U. S. Public Health Reports (Supt. of Documents, Washington 25, D. C. 10 cents a copy), 62(22), May 30, 1947, pp. 780-791.

Summary and discussion of investigations from 1908 when the first cases of human plague were identified, in which are treated: the extent of surveys; fleas as an index of plague; flea vectors (25 species) and the flea index; variety of animals infected; and seasons and geography of plague. "Twenty-six species of the genus . . . Citellus were included. Plague was found in tissues and in fleas of nine species of ground squirrels (Citellus armatus, beecheyi beecheyi, beldingi, columbianus, richardsonii, townsendii, tridecemlineatus, variegatus, washingtoni), and in fleas infesting three other species (Citellus beecheyi douglasii, idahoensis, lateralis). Specimens of tissue of eight other genera, and of their infesting fleas, were also found to be infected: prairie dogs (Cynomys), kangaroo rats (Dipodomys), marmots (Marmota), meadow mice (Microtus), wood or pack rats (Neotoma), grasshopper mice (Onychomys), rats (Rattus), and cottontail rabbits (Sylvilagus). Infected fleas were taken also from chipmunks (Eutamia), weasels (Mustela), deer mice (Peromyscus), harvest mice (Reithrodontomys), cotton rats (Sigmodon) and badgers (Taxidea)."

Diseases and Parasites: Rickettsialpox

Huebner, Robert J., William L. Jellison, and Charles Armstrong. Recovery of Rickettsia akari from a house mouse, U. S. Public Health Reports (Supt. of Documents, Washington 25, D. C. 10 cents a copy), 62(22), May 30, 1947, pp. 777-780, 4 tables.

"Rickettsia akari, the causative agent of rickettsialpox was recovered from the tissues of a naturally infected house mouse (Mus musculus) trapped at the site of an outbreak of the disease." New York City. Bibliography of 8 titles.

Diseases and Parasites: Of bats

Macy, Ralph W. Parasites in certain Oregon bats with description of a new cestode, Hymenolepis gertschi, American Midland Naturalist (Notre Dame, Ind. $1.00 a copy), 37(2), March 1947, pp. 375-378, 1 pl.

From three species of Myotis were collected fleas, mites, trematodes (3 species), and a cestode, which is described as new (name above); it is illustrated and measurements and comparative notes are presented. Bibliography of 13 titles.

Life Histories: Owl, Great horned

Murray, J. J. The great horned owl, Virginia Wildlife (P. O. Box 1642, Richmond 13, Va. 10 cents a copy), 8(6), June 1947, pp. 7-9, 6 figs.

Popular sketch of its characteristics, life history, and food habits.

Life Histories: Pheasant

Baskett, Thomas S. Nesting and production of the ring-necked pheasant in north-central Iowa, Ecological Monographs (Duke University Press, Durham, N. C. $1.50 a copy), 17(1), Jan. 1947, pp. 1-30, 20 figs., 18 tables.

Report on a Cooperative Wildlife Research project. Description of the study area and techniques of investigation and statement of results as to: courtship, territoriality, nesting habits, nesting losses, juvenile mortality, production, and density effects. From author's summary: "The male / female ratios were estimated to be as follows: 1:2.4 in 1939, 1:2.1 in 1940, and 1:2.0 in 1941. . . Nests were found in a variety of cover types, but hayfields, fields of small grain, and fence rows consistently harbored the largest numbers. Hayfields contained from 34.6 to 64.8 per cent of all nests; small grains, from 19.5 to 22.9 per cent; and fence rows held from 6.6 to 25.3 per cent of the nests. As nesting densities increased, the proportions of hayfield nests increased. The proportion of nests successful in small grain was high (40.3-80.0 per cent); in fence rows, low (4.8-21.1 per cent); and in hayfields, intermediate (20.3-34.6 per cent). . . Losses of nests were attributed to many causes, of which desertion, predation, injury to female, and death of female were the important types. Over a third of all nests lost were deserted as a result of disturbance by man in pursuing agricultural activities. Crows were the most destructive predators, probably having caused losses of 19.0 per cent of all destroyed nests. Haying, together with subsequent desertion and predation, accounted for 35 per cent of nesting failures . . . The significance of nesting losses is discussed, and it is concluded that failure of individual nests does not necessarily signify absolute reproductive loss, for, as pointed out by other workers, many hens renest until they bring off a brood. . . Data

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on rates of summer gain in relation to breeding densities of pheasants, European partridges, and the two species combined are plotted. Some evidences of competitive effects between the two species are evident; the combined data show trends of gain in relation to density similar to those shown by data for pheasants in North Dakota during the same years. . . Synchronism between the Winnebago and North Dakota population phenomena suggest the operation of mechanisms effective over a large area rather than a strong influence of local conditions on population gains." Bibliography of 43 titles.

Life Histories: Pigeon, Band-tailed

Neff, Johnson A. Habits, food, and economic status of the band-tailed pigeon, U. S. Fish and Wildlife Service, N. A. Fauna 58, 76 pp., 10 figs., 7 tables, 1947 (Supt. of Documents, Washington 25, D. C. 20 cents a copy).

A useful summary of information, much of it original. The author treats: History of knowledge of the species, its natural history, distribution, value as a game bird, agricultural relationships, and food habits. He provides also an abstract, a summary, a bibliography of nearly 4 pages, and an index. The publication apparently has been in process a long time as there are no entries later than for 1941 in the list of literature. The life history and range statements are much fuller than have before been presented. Damage to fruit and grain crops and methods of crop protection are discussed in detail. "There can be no question that serious agricultural losses sustained by persons on account of depredations by band-tailed pigeons must be controlled. On the other hand, conservation sentiment demands that there be no excessive or unwarranted destruction of the birds. Pigeon depredations affect a large number of persons, especially in mountain, valley, or wilderness areas close to abundant bandtail populations. In many cases there is a distinct loss, but in many others the damage is magnified. Regardless of the degree of damage incurred or of the justification for control of the birds on the individual farm, studies of methods of prevention of damage have lagged, and there are few economical, practicable, and highly successful methods that can be recommended. Where the farmer will get out with his gun at daylight and keep the pigeons from feeding in his field until dark usually only one to three days are required to break up even the worst of the normal pigeon attacks."

In the account of the general food habits as in other sections of the pamphlet, published information is reviewed and original findings are presented. Laboratory examination was made of 639 crops and stomachs. The resulting data are tabulated and discussed by food groups and seasonally. The diet is practically all vegetable, half of it mast. Cultivated fruits made up 11 percent of the contents of the stomachs and crops analyzed and wild fruits 13.6 percent. Cultivated grains composed 12 percent of the food. "Management of the bandtail must be built on the premise of safeguarding the species from threatened decimation, yet there should be recognition of the fact that severe crop damage may be inflicted and effective remedial measures must be available. Looking toward a long-time program of management, the basic population must be carefully watched and undue decimation through hunting prevented. Those accepted principles of forestry that will prevent forest destruction, and that

will preserve the oaks and pines, and the wild fruits and berries that supplement mast as a food, will be advantageous to the band-tailed pigeon."

Life Histories: Snake, Rattle

Fitch, Henry S., and Ben Glading. A field study of a rattlesnake population, California Fish and Game (Ferry Bldg., San Francisco 11, Calif.), 33(2), May 1947, pp. 103-123, Figs. 29-39, 4 tables.

Much original information on a neglected subject. The snake was Crotalus viridis oreganus and the study area the San Joaquin Experimental Range, which is described. The report is on investigations, 1938-1940, during which 749 rattlesnakes were recorded; 515 were marked and released; and 116 recaptures accomplished. The marking method (scute clipping) is described but the snakes proved sensitive to handling and many of those marked seemed to be lastingly stunted. Other technics of the study are described and results are presented under the headings of: Hiberration and winter occurrence, spring emergence, spring and summer occurrence, effects of weather on activities, movements (the snakes are rather sedentary), breeding habits, composition of population, growth, significance of number of rattles, and causes of death. Eighty-five records were obtained of predation on the snakes by the red-tailed hawk, Cooper's hawk, horned owl, road-runner, and coyote. Few of the rattlesnakes survive much beyond their first year.

Life Histories: Weasels

Bradt, G. W. Weasel--Nemesis of Nature's little people, Michigan Conservation (328 State Office Bldg., Lansing 13, Mich.), 16(5), June 1947, p. 4, 1 pl.

Characteristics, food habits, life history, kinds found in Michigan, economic value.

Management: Pheasant

Clarke, C. H. D., and R. Braffette. Ring-necked pheasant investigations in Ontario 1946. Ontario Dept. of Lands and Forests (Toronto), 11 pp., 8 pls. ($8\frac{1}{2}$ x 14), processed, 1947.

Review of stocking operations and status of the birds; as everywhere in the northeast recently there has been a decline; climate and land use are discussed as affecting the pheasant population; and investigations by questionaries and field study in 1946 are reported upon. Authors' summary: "The introduction of pheasants into Ontario, commenced around 1890 or even earlier, was systematized in 1922 and successfully accomplished. Birds were tried in all parts of the province and it was found that range values for pheasants ranged from optimum on Pelee Island to sub-marginal over the largest part of the province. Pheasant success and range value coincide with the general pattern of winter snow and storms superimposed on land use. In recent years there has been a general falling off in pheasant populations (marked since 1943), which now seems to be over. Field parties in 1946 confirmed a general picture

of scarcity except on Pelee Island, indicated the spheres of usefulness of road and field transects, and established a general basis for censusing and managing the Pelee Island pheasants." Bibliography of 9 titles.

Management: Planting for wildlife, roses

Chapman, Floyd B. The roses in wild life conservation, Ohio Conservation Bul. (1106 State Office Bldg., Columbus 15, Ohio. 10 cents a copy), 11(6), June 1947, pp. 20-21, 1 photo.

Value for cover and food, and in hedgerows, culture of kinds suitable for Ohio.

Research: Banding waterfowl

Mann, Roberts, David H. Thompson, and John Jedlicka. Report on waterfowl banding at McGinnis Slough, Orland Wildlife Refuge, for the years 1944 and 1945. Forest Preserve District of Cook County, Illinois (536 North Harlem Ave., River Forest, Ill.), 235 pp. (mostly tables), maps, mimeographed, 1947. Edition 100 copies.

In part a Pittman-Robertson project. The history, area, and methods of the study are described, weather conditions recorded, and details given of the birds banded and of returns. Data are presented also on sex ratios and weights. Returns for the two years concerned numbered 2,734, amounting to 10.3 percent of the birds banded. There is a great deal of information recorded here that can be studied along lines other than those taken and briefly summarized by the authors.

Research: Daily periodicity of animals

Calhoun, John B. Twenty-four hour periodicities in the animal kingdom, Journ. Tennessee Acad. Sci. (Nashville, Tenn.), 19(2), April 1944, pp. 179-200; (19(3), July 1944, pp. 252-262; 20(2), April 1945, pp. 228-232; 20(3), July 1945, pp. 291-308; 20(4); Oct. 1945, pp. 373-378; 21(2), April 1946, pp. 208-216; 21(3), July 1946, p. 281.

Review of the literature of which an extensive bibliography is presented. About half of the paper relates to vertebrates. From author's summary: "Most animals when subjected to a diel (daily) variation of meteorological conditions (particularly light and temperature) tend to have their activities more pronounced in either the day or the night period. . . moles and shrews are arhythmic, apparently because they inhabit an environment where temperature and light changes . . . are negligible. . . the major period of activity of many nocturnal animals occurs during the first half of the night period (many diurnal species show a corresponding periodicity). . . Most nocturnal animals which possess a pre-midnight major period of activity also possess a secondary pre-dawn period of activity. Similarly most diurnal animals with a pre-noon major period of activity also possess a secondary pre-dusk period of activity. . . Most animals which have been studied while they are young are arhythmic. Among mammals a completely functional cerebral cortex seems to be necessary for the

maintenance of a diel activity pattern. Decorticated cats, dogs, monkeys, as well as human idiots, are completely arhythmic in regard to the 24-hour cycle."

Research: Daily periodicity of rodents

Calhoun, John B. Diel activity rhythms of the rodents, Microtus ochrogaster and Sigmodon hispidus hispidus, Ecology (Prince and Lemon Sts., Lancaster, Pa. $1.50 a copy), 26(3), July 1945, pp. 251-273, 11 figs.

The evidence as to periods of these activities as noted in published papers is reviewed and the apparatus employed by this writer is described and illustrated. Experiments to establish spontaneous activity and to learn the effect of varying certain factors are recorded. From author's summary: "Male Sigmodon hispidus possessed a nocturnal bimodal activity pattern of all their activities; the major peak of these activities normally occurred before midnight. Male Microtus ochrogaster possessed a nocturnal increase in activity as represented by spontaneous running in a revolving wheel, but their feeding rhythm was arhythmic with respect to the 24-hour light-darkness cycle. The activity in the wheel normally showed a major peak before midnight. The activity rhythms of Microtus and Sigmodon persisted either in continuous darkness or in continuous light. This indicated an endogenous rhythm." Other results are for changed-condition experiments. Bibliography of 31 titles.

Research: Trapping bobwhite

Bailey, R. Wayne. Quail trapping in Nicholas County, The Redstart (Brooks Bird Club, Inc., 707 Warwood Ave., Wheeling, W. Va.), 14(8), May 1947, pp. 63-65, 1 table, mimeographed.

Account of trapping birds for research, in which information is given on sex ratio and weights. Number of males: 14, average weight 6.35 ozs.; of females, 17 and 6.66. A sparrow hawk entered one of the traps, killed and partly devoured a cardinal, a junco, and a song sparrow previously entrapped. West Virginia.

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SUBJECT INDEX FOR WILDLIFE REVIEW
Nos. 43-50, June 1945 - July 1947

The classification used in the index is primarily from the wildlife management point of view, major headings being much the same as have been regularly used in WILDLIFE REVIEW. Subordinate grouping depends usually on the key word, which may be preceded by a preposition, article, or other trivial term. Federal agencies are arranged alphabetically under U. S. Government.

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44	October 1945	132	141	--	3
45	February 1946	157	186	--	4
46	July 1946	146	155	--	1
47	December 1946	176	175	--	7
48	March 1947	171	181	1	2
49	June 1947	130	136	--	6
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Totals		1,122	831*	1	26

* Duplications deducted

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1-7	1935-36	627	12	40
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26-33	1940-41	1,142	1	47
34-42	1942-44	1,474	1	40
43-50	1945-47	1,122	1	26
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